PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	ON	See Form PCT/IPEA/416
53951-112 International application No.	International filing date (day	y/montli/year)	Priority date (day/month/year)
	14 January 2004 (14.01.200		15 January 2003 (15.01.2003)
PCT/US04/00921 International Patent Classification (I	C) or national classification and	IPC	
			4 6 09 6 11
IPC(7): A61M 37/00, B01D 13/00,	CO2F 1/44 and US CI.: 210/645,0	040,321.71; 004/3.0	4,0.09,0.11
Applicant	NICEED THUSE	M	Ĭ
NXSTAGE MEDICAL, INC. B	ogger, James	<u> </u>	
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 			
2. This REPORT consist	s of a total of $\mathcal{S}_{\underline{\ }}$ sheets, inclu	iding this cover she	eet.
	ompanied by ANNEXES, con		
	licant and to the Internationa		
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).			
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.			
b. (sent	to the International Bureau	only) a total of (indicate type and number of electronic
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).			
4. This report contains indications relating to the following items:			
Box No. I	Basis of the report		·
Box No. II	Priority		
Box No. III Non-establishment of opinion with regard to novelty, inventive step and indus applicability		novelty, inventive step and industrial	
Box No. IV	Lack of unity of invention		
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step industrial applicability; citations and explanations supporting such statement			th regard to novelty, inventive step or tions supporting such statement
Box No. VI			
Box No. VII	Certain defects in the inter	national applicatio	n
Box No. VIII Certain observations on the international application			
Date of submission of the dem	ind	Date of completi	on of this report
08 November 2004 (08.11.2004)			- A
Name and mailing address of the IPEA/ US		Authorized officer	Sharon N. Green for
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Form PCT/IPEA/409 (cover sheet)(January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
••	
PCT/US04/00921	
FC1/0304/00221	

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1. V	iled.	unless o	therwise indic	e, this report is based on the international application in the language in which it was	as
		This rep	ort is based or the language	n translations from the original language into the following language, of a translation furnished for the purposes of:	
				rch (under Rules 12.3 and 23.1(b))	
				e international application (under Rule 12.4)	İ
				liminary examination (under Rules 55.2 and/or 55.3)	
1	ในทาเร	regard		s of the international application, this report is based on (replacement sheets which have ice in response to an invitation under Article 14 are referred to in this report as "originally	e been filed"
	\boxtimes	the inte	rnational appli	ication as originally filed/furnished	
	\boxtimes	the desc	cription:		
		pages		_ as originally filed/furnished received by this Authority on	
			NONE	received by this Authority on	
		pages*	NONE	received by this Authority on	į
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		pages		_ as originally filed/furnished	
i		pages*	NONE	as amended (together with any statement) under Article 19	
			NONE	received by this Authority on	
		pages*	NONE	received by this Authority on	
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		a sequ	ence listing an	nd/or any related table(s) - see Supplemental Box Relating to Sequence Listing.	
3.		The ar	nendments hav	ve resulted in the cancellation of:	
			the description	on, pages	
		Ħ		Nos	
		뭄	the drawings		
		님	me drawings	e listing (specify):	
1		닏	the sequence	e listing (specify):	
			any table(s)	related to the sequence listing (specify):	
4.		This re	eport has been e hey have been o	established as if (some of) the amendments annexed to this report and listed below had not be considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 7	een made, 70.2(c)).
			the descripti	on, pages	
		Ħ		Nos	
		H		s, sheets/figs	
		H		e listing (specify):	
		님		related to the sequence listing (specify):	
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*	If it	em 4 ap)	plies, some or	all of those sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/00921

	and the inventive step or industrial
Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial
2011 - 101 1	applicability; citations and explanations supporting such statement
	applicability, citations and explanations of providing and explana

applicability, citations and explanations of proving			
Statement Novelty (N)	Claims 1-34	YES	
Inventive Step (IS)	Claims NONE Claims 1-34	YES NO	
Industrial Applicability (IA)	Claims 1-34 Claims NONE	YES NO	

2. Citations and Explanations (Rule 70.7)

Claims 1-34 lack an inventive step under PCT Article 33(3) as being obvious over US 4,661,246 to Ash in view of US 5,641,405 to Keshaviah et al. Ash discloses a dialysis system that uses a proportioning system to control fluid flow to and from the patient during dialysis. The system comprises a scale for weighing the apparatus, allowing that value to be extrapolated to estimate the patient's weight. The system further comprises various optical flow sensors, pumps, clamps, and pressure transducers to monitor and control fluid flow. Ash fails to disclose a patient scale, but does use weight to control fluid flow. Keshaviah discloses a dialysis system that uses patient weight to control fluid flow therein. Since Ash specifically discloses that an estimate of patient weight is a factor in controlling fluid flow, it would have been obvious to one of ordinary skill in the art at the time of invention to add the patient scale as disclosed by Keshavia to the system disclosed by Ash in order to more accurately control the extracorporeal fluid flow.

Claims 1-34 meet the criteria set out in PCT Article 33(4), and thus satisfy industrial applicability because the subject matter claimed can be made or used in industry.

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